



Sampler & Transmitter



EN IEC 60079-XX
ISO 5667-X
DIN EN 38402-XX

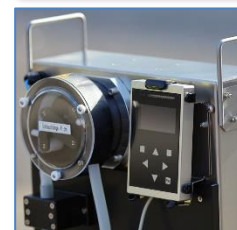
nemo Sampler & Measuring Transmitter

the world's only portable device with ATEX approval for measuring and sampling

The mobile nemo is available with different sampling dosing systems and an integrated multi-channel, multi-parameter transmitter with data logger function. For the use of 10 digital (ISM, RS 485) and 2 analogue sensors parallel like e.g. pH, ORP, Cond., Temp, O₂, Level, VOC...

An optional LTE/2G modem allows the wireless communication to the ORI Mcloud, or data transfer via emails/FTP or SMS directly out of hazardous location area ATEX zone 1.

The new, removable control panel shows all the information you need at a glance. Easy to operate over the ORI pen. Can be used as mobile data storage to download the data of the device inside hazardous areas and transfer it to a computer in the office. With integrated Bluetooth and USB connection.



⇒ Different dosing systems



⇒ Bottle combinations



⇒ Integrated measuring transmitter with data logger

Features



- ATEX certified for zone 1 and 2
- Industrial sample module **with different sampling options** (*time-, volume-, flow-proportional and also numerous event proportional sampling*)
- **Compact and robust**, electric components in a stainless-steel housing
- **Selectable dosing system**
Peristaltic pump (PP), Vacuum pump (V), Hybrid system (H)
- **Different bottle combinations** (*bottle volume, number and material*)
- **Multi-channel + Multi-parameter measuring transmitter and data logger** for Mettler Toledo ISM, EOG, RS485 and mA sensors
- **Removable handheld display**
- **Different sampling start options** (*ready for iSampling 4.0 and SMS start*)

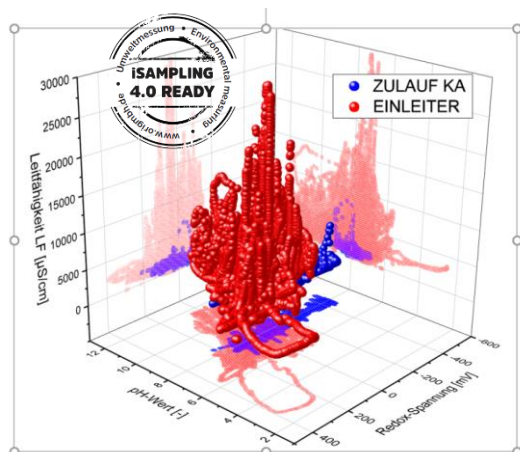
Technical Data: ORI NEMO 1 M (mobile sampler)

ATEX / IECEx	Ex II 2 G IIB T4	
Norm	CE; ATEX; DIN 38402-11; DIN EN ISO 5667-1; ISO 5667-10; EN 16479-1 with a rated head up to 4.5 with a peristaltic pump and 6 m with pressure/vacuum pump	
Degree of protection	IP 65	
Electrical data	12 V DC battery (20 Ah);	
Transmitter Inputs/Outputs	4x one wire for digital ISM Sensors Mettler Toledo: pH, conductivity, ORP, O ₂ , Temp. or EOG Sensors: level, Temperature, VOC, RS485 sensors on request. Additional Inputs: 2 x DI, 2 x 4-20 mA, 2 x Namur, 2 x WDM (water detection), 1 x optical, 6 x RS 485 Outputs: 2 x DO (1 x open drain, 1 x 12VDC/500mA) for e.g. alarms	
Data memory	Data storage 8 Gb memory	
Dimension / weight	Mobile (∅ x H):	420 x 820 mm 20 kg excl. battery (PP version)
Dosing systems (possible)	Peristaltic pump (NEMO 1 M PP), Pressure/vacuum pump (NEMO 1 M V), Hybrid (NEMO 1 M H)	
Sample distribution	Different bottle combinations	
Wetted material	Suction hose	PVC
	Intake tip	V2A (1.4305/AISI303) optional V4A (1.4571/ASIS 316 Ti)
	Hose coupling	PA
	Peristaltic pump hose	Silicon (<i>various materials on request</i>)
	Dosing glass (<i>if available</i>)	borosilicate glass, inside dosing tube = PVC or silicone
	Water detection system	via conductivity=AISI 316 / capacitive=PVC / optical=glass
	Bottle	HDPE or glass
Bottle combinations	12x1 ltr. HDPE bottles	(<i>others on request, e.g. 12x0.5 ltr. Glass, composite container</i>)
Suction hose	∅ (di) 9 mm	(<i>special versions are available on request</i>)
	Length 6 m on delivery	(<i>up to max. 20m</i>)
Suction height	Max. 6 m	(<i>others on request</i>)
Dosing volume	depending on the dosing system used (up to 26000 ml with PP)	
Temperature	Operating temperature	0°C – +40°C
	Max. ambient temperature	-20°C - +40°C

Optional communication module NEMO GSM:

With ATEX approval for zone 1/2

- LTE/2G Modem (EMEA) (CAT1 3,7,20 MHz / Dual-band 900/1800 MHz)
- Wireless communication to the Ori cloud, sending e-mail and SMS
- Program start / stop / status via SMS
- Automatic data transfer via email /FTP and to ORI Mcloud



iSampling 4.0 ready

- Automatic sampling start when measuring limits are exceeded or fall below
- Auto sampling start triggered by confidence figures
- Data transfer to the ORI Mcloud
- Control of the sampling function on the ORI Mcloud



Technical changes and errors excepted.